

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:57:33 ON 03 JAN 2007

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY SESSION

FULL ESTIMATED COST

0.21 0.21

FILE 'REGISTRY' ENTERED AT 16:58:01 ON 03 JAN 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JAN 2007 HIGHEST RN 916646-22-5

DICTIONARY FILE UPDATES: 2 JAN 2007 HIGHEST RN 916646-22-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

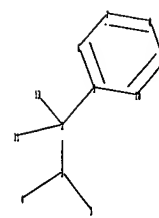
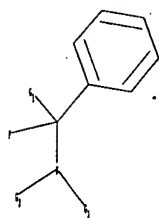
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10537437fulorinator.str



chain nodes :
 1 2 3 4 11 13
 ring nodes :
 5 6 7 8 9 10
 chain bonds :
 1-2 1-3 1-4 2-5 2-11 2-13
 ring bonds :
 5-6 5-10 6-7 7-8 8-9 9-10
 exact/norm bonds :
 1-2 1-3 1-4 2-13
 exact bonds :
 2-5 2-11
 normalized bonds :
 5-6 5-10 6-7 7-8 8-9 9-10

G1:H,Cl,Br,F,I

G2:CH3,CH2,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph

Match level :

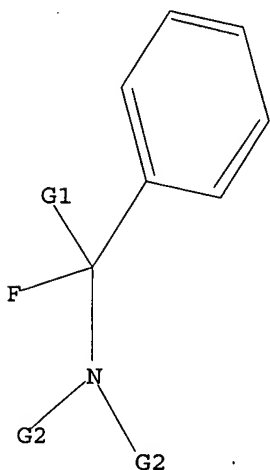
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 H, Cl, Br, F, I

G2 Me, CH2, n-Pr, i-Pr, n-Bu, i-Bu, s-Bu, t-Bu, Ph

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full

FULL SEARCH INITIATED 16:58:32 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4035 TO ITERATE

100.0% PROCESSED 4035 ITERATIONS

21 ANSWERS

SEARCH TIME: 00.00.01

L2 21 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'CAPLUS' ENTERED AT 16:58:37 ON 03 JAN 2007

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FILE COVERS 1907 - 3 Jan 2007 VOL 146 ISS 2
FILE LAST UPDATED: 2 Jan 2007 (20070102/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l2 and (?saccharide or sugar or glucose or fructose or galactose or ribose or deoxyribose or starch or chitin or cellulose)

32 L2

166701 ?SACCHARIDE

257156 SUGAR

414493 GLUCOSE

63693 FRUCTOSE

56624 GALACTOSE

27347 RIBOSE

4227 DEOXYRIBOSE

161779 STARCH

15969 CHITIN

347856 CELLULOSE

L3 3 L2 AND (?SACCHARIDE OR SUGAR OR GLUCOSE OR FRUCTOSE OR GALACTOSE OR RIBOSE OR DEOXYRIBOSE OR STARCH OR CHITIN OR CELLULOSE)

=> d l3 1-3 ti abs bib

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

TI De novo asymmetric syntheses of C-4-substituted sugars via an iterative dihydroxylation strategy

AB A short and highly efficient route to various C-4 substituted sugar lactones has been developed. The key to the overall transformation is the sequential osmium-catalyzed dihydroxylation reaction of substituted 2,4-dienoates and an allylic substitution at the C-4 position. When the Sharpless AD-mix procedure is used in a matched sense for the second dihydroxylation reaction, it results in an exceedingly diastereo- and enantioselective synthesis of several C-4-substituted sugars.

AN 2006:548970 CAPLUS

DN 145:211276

TI De novo asymmetric syntheses of C-4-substituted sugars via an iterative dihydroxylation strategy

AU Ahmed, Md. Moinuddin; O'Doherty, George A.

CS Department of Chemistry, West Virginia University, Morgantown, WV, 26506, USA

SO Carbohydrate Research (2006), 341(10), 1505-1521

CODEN: CRBRAT; ISSN: 0008-6215

PB Elsevier B.V.

DT Journal

LA English

OS CASREACT 145:211276

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

TI Deoxyfluorination of alcohols using N,N-diethyl- α,α -difluoro-(m-methylbenzyl)amine

AB Deoxyfluorination of alcs. was carried out using N,N-diethyl- α,α -difluoro-(m-methylbenzyl)amine (DFMBA). Primary alcs. were effectively converted to fluorides under microwave irradiation or conventional heating. Deoxyfluorination of an anomeric hydroxy group in sugars by DFMBA proceeded at below room temperature and glycosyl fluorides could

be obtained in good yields. The deoxyfluorination reaction chemoselectively proceeded and various protecting groups on the sugar can survive under the reaction conditions.

AN 2004:581849 CAPLUS
DN 141:260951
TI Deoxyfluorination of alcohols using N,N-diethyl- α,α -difluoro-(m-methylbenzyl)amine
AU Kobayashi, Shingo; Yoneda, Atushi; Fukuhara, Tsuyoshi; Hara, Shoji
CS Division of Molecular Chemistry, Graduate School of Engineering, Hokkaido University, Sapporo, 060-8628, Japan
SO Tetrahedron (2004), 60(32), 6923-6930
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier Science B.V.
DT Journal
LA English
OS CASREACT 141:260951
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
TI Method of fluorination using N,N-diethyl- α,α -difluorobenzylamines
AB Disclosed is a method in which a glucide, examples of which include a monosaccharide, an oligosaccharide, a polysaccharide, a composite saccharide comprising any of these saccharides and a protein or lipid bonded thereto, a polyalc., an aldehyde, ketone, or acid of a polyalc., a derivative or condensate of any of these, is reacted with a fluorinating agent represented by the general formula of $\text{RCF}_2\text{-Y(R}_1\text{)R}_2$ [$\text{Y} = \text{N, P}$; R-R_2 are same or different group selected from H and each (un)substituted alkyl and aryl; or ≥ 2 of R-R_2 groups are bonded to each other to form a ring] either thermally or by irradiation with microwave or an electromagnetic wave with a wavelength around the microwave region. By the method, fluorination reaction can be safely conducted position-selectively even in a temperature range of 150 to 200°, in which fluorination has conventionally been difficult. The method in which the reactants are irradiated with microwave or an electromagnetic wave with a wavelength around the microwave region is applicable to substrates other than glucides. When a complex compound comprising HF and a base, for example, is reacted with a substrate by irradiation with microwave, fluorination in a specific position which has been difficult in conventional techniques proceeds highly selectively in a short time efficiently and safely. Thus, 10 mmol Me 2,3-O-isopropylidene- β -D-ribofuranoside, 12 mmol N,N-diethyl- α,α -difluoro-3-methylbenzylamine, and 20 mL heptane were added to a glass vessel reaction vessel coated with fluorinated resin, heated with 100° with stirring, and allowed to react for 50 min to give 55% Me 2,3-O-isopropylidene-5-deoxy-5-fluoro- β -D-ribofuranoside.

AN 2004:493719 CAPLUS
DN 141:38808
TI Method of fluorination using N,N-diethyl- α,α -difluorobenzylamines
IN Hara, Shoji; Fukuhara, Tsuyoshi
PA Mitsubishi Gas Chemical Company, Inc., Japan
SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|----------|
| PI | WO 2004050676 | A1 | 20040617 | WO 2003-JP15336 | 20031201 |
| | W: CN, US | | | | |
| | RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR | | | | |
| | JP 2004182664 | A | 20040702 | JP 2002-352968 | 20021204 |

JP 2004189655 A 20040708 JP 2002-358249 20021210
 EP 1568703 A1 20050831 EP 2003-775984 20031201
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK
 CN 1720256 A 20060111 CN 2003-80104679 20031201
 US 2006014972 A1 20060119 US 2005-537437 20050603
 PRAI JP 2002-352968 A 20021204
 JP 2002-358249 A 20021210
 WO 2003-JP15336 W 20031201
 OS CASREACT 141:38808; MARPAT 141:38808
 RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s (sugar or ?accharide) and (fluorinat?)

257156 SUGAR
 166709 ?ACCHARIDE
 49821 FLUORINAT?

L4 483 (SUGAR OR ?ACCHARIDE) AND (FLUORINAT?)

=> d l4 1-5 ti

L4 ANSWER 1 OF 483 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Design, synthesis, and biological evaluation of novel iso-D-2',3'-dideoxy-
 3'-fluorothianucleoside derivatives

L4 ANSWER 2 OF 483 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Preparation of highly fluorinated carboxylic acids and their
 application as protective groups in fluorous synthesis

L4 ANSWER 3 OF 483 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Fluorinated analogues of biological molecules: accessing new
 chemical, physical and biological properties

L4 ANSWER 4 OF 483 CAPLUS COPYRIGHT 2007 ACS on STN
 TI A synthesis of 2-fluoroglucal derivatives

L4 ANSWER 5 OF 483 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Fluorinated nucleosides as antiviral and antitumor agents

=> s l4 not py>2002

4750668 PY>2002

L5 393 L4 NOT PY>2002

=> s l5 and DBDA

38 DBDA

L6 0 L5 AND DBDA

=> s l5 and (difluorobenzyl)

926 DIFLUOROBENZYL

L7 0 L5 AND (DIFLUOROBENZYL)

=> s l5 and (?fluoramine)

225 ?FLUORAMINE

L8 0 L5 AND (?FLUORAMINE)

=> log hold

COST IN U.S. DOLLARS

| | |
|------------|---------|
| SINCE FILE | TOTAL |
| ENTRY | SESSION |
| 46.71 | 219.02 |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| | |
|------------|---------|
| SINCE FILE | TOTAL |
| ENTRY | SESSION |
| -2.34 | -2.34 |

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| | | | |
|--------------|--|--------|--|
| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | | "Ask CAS" for self-help around the clock |
| NEWS | 3 | AUG 09 | INSPEC enhanced with 1898-1968 archive |
| NEWS | 4 | AUG 28 | ADISCTI Reloaded and Enhanced |
| NEWS | 5 | AUG 30 | CA(SM)/Cplus(SM) Austrian patent law changes |
| NEWS | 6 | SEP 21 | CA/Cplus fields enhanced with simultaneous left and right truncation |
| NEWS | 7 | SEP 25 | CA(SM)/Cplus(SM) display of CA Lexicon enhanced |
| NEWS | 8 | SEP 25 | CAS REGISTRY(SM) no longer includes Concord 3D coordinates |
| NEWS | 9 | SEP 25 | CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine |
| NEWS | 10 | SEP 28 | CEABA-VTB classification code fields reloaded with new classification scheme |
| NEWS | 11 | OCT 19 | LOGOFF HOLD duration extended to 120 minutes |
| NEWS | 12 | OCT 19 | E-mail format enhanced |
| NEWS | 13 | OCT 23 | Option to turn off MARPAT highlighting enhancements available |
| NEWS | 14 | OCT 23 | CAS Registry Number crossover limit increased to 300,000 in multiple databases |
| NEWS | 15 | OCT 23 | The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded |
| NEWS | 16 | OCT 30 | CHEMLIST enhanced with new search and display field |
| NEWS | 17 | NOV 03 | JAPIO enhanced with IPC 8 features and functionality |
| NEWS | 18 | NOV 10 | CA/Cplus F-Term thesaurus enhanced |
| NEWS | 19 | NOV 10 | STN Express with Discover! free maintenance release Version 8.01c now available |
| NEWS | 20 | NOV 20 | CAS Registry Number crossover limit increased to 300,000 in additional databases |
| NEWS | 21 | NOV 20 | CA/Cplus to MARPAT accession number crossover limit increased to 50,000 |
| NEWS | 22 | DEC 01 | CAS REGISTRY updated with new ambiguity codes |
| NEWS | 23 | DEC 11 | CAS REGISTRY chemical nomenclature enhanced |
| NEWS | 24 | DEC 14 | WPIDS/WPINDEX/WPIX manual codes updated |
| NEWS | 25 | DEC 14 | GBFULL and FRFULL enhanced with IPC 8 features and functionality |
| NEWS | 26 | DEC 18 | CA/Cplus pre-1967 chemical substance index entries enhanced with preparation role |
| NEWS | 27 | DEC 18 | CA/Cplus patent kind codes updated |
| NEWS | 28 | DEC 18 | MARPAT to CA/Cplus accession number crossover limit increased to 50,000 |
| NEWS | 29 | DEC 18 | MEDLINE updated in preparation for 2007 reload |
| NEWS | 30 | DEC 27 | CA/Cplus enhanced with more pre-1907 records |
| | | | |
| NEWS EXPRESS | NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006. | | |
| | | | |
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability | | |
| NEWS LOGIN | Welcome Banner and News Items | | |
| NEWS IPC8 | For general information regarding STN implementation of IPC 8 | | |
| NEWS X25 | X.25 communication option no longer available | | |